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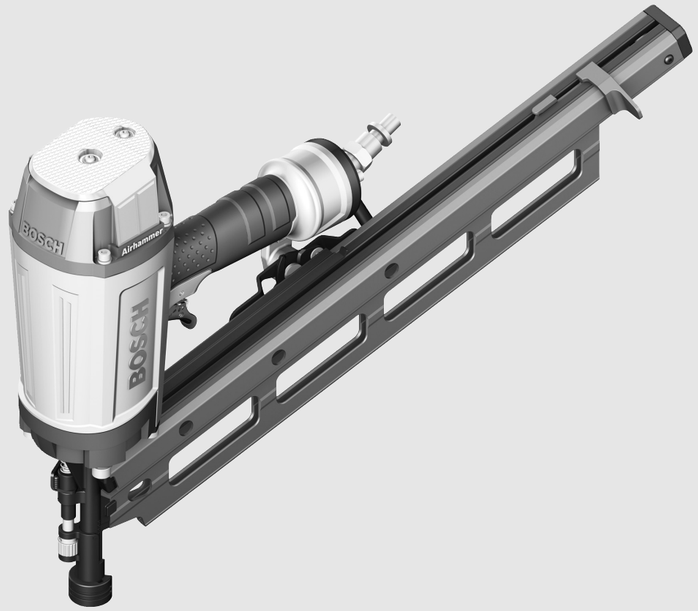

Robert Bosch GmbH
Power Tools Division
70745 Leinfelden-Echterdingen
Germany

www.bosch-pt.com

1 609 929 U15 (2009.12) PS / 352 **UNI**

1 609 929 U15

GSN Professional

90-21 RK | 90-34 DK

BOSCH

de Originalbetriebsanleitung
en Original instructions
fr Notice originale
es Manual original
pt Manual original
it Istruzioni originali
nl Oorspronkelijke gebruiksaanwijzing
da Original brugsanvisning
sv Bruksanvisning i original
no Original driftsinstruks
fi Alkuperäiset ohjeet
el Πρωτότυπο οδηγιών χρήσης
tr Orijinal işletme talimatı
pl Instrukcja oryginalna
cs Původní návod k používání
sk Pôvodný návod na použitie
hu Eredeti használati utasítás
ru Оригинальное руководство по эксплуатации
uk Оригінальна інструкція з експлуатації
ro Instrucţiuni originale
bg Оригинална инструкция
sr Originalno uputstvo za rad
sl Izvirna navodila
hr Originalne upute za rad
et Algupärane kasutusjuhend
lv Instrukcijas oriģinālvalodā
lt Originali instrukcija
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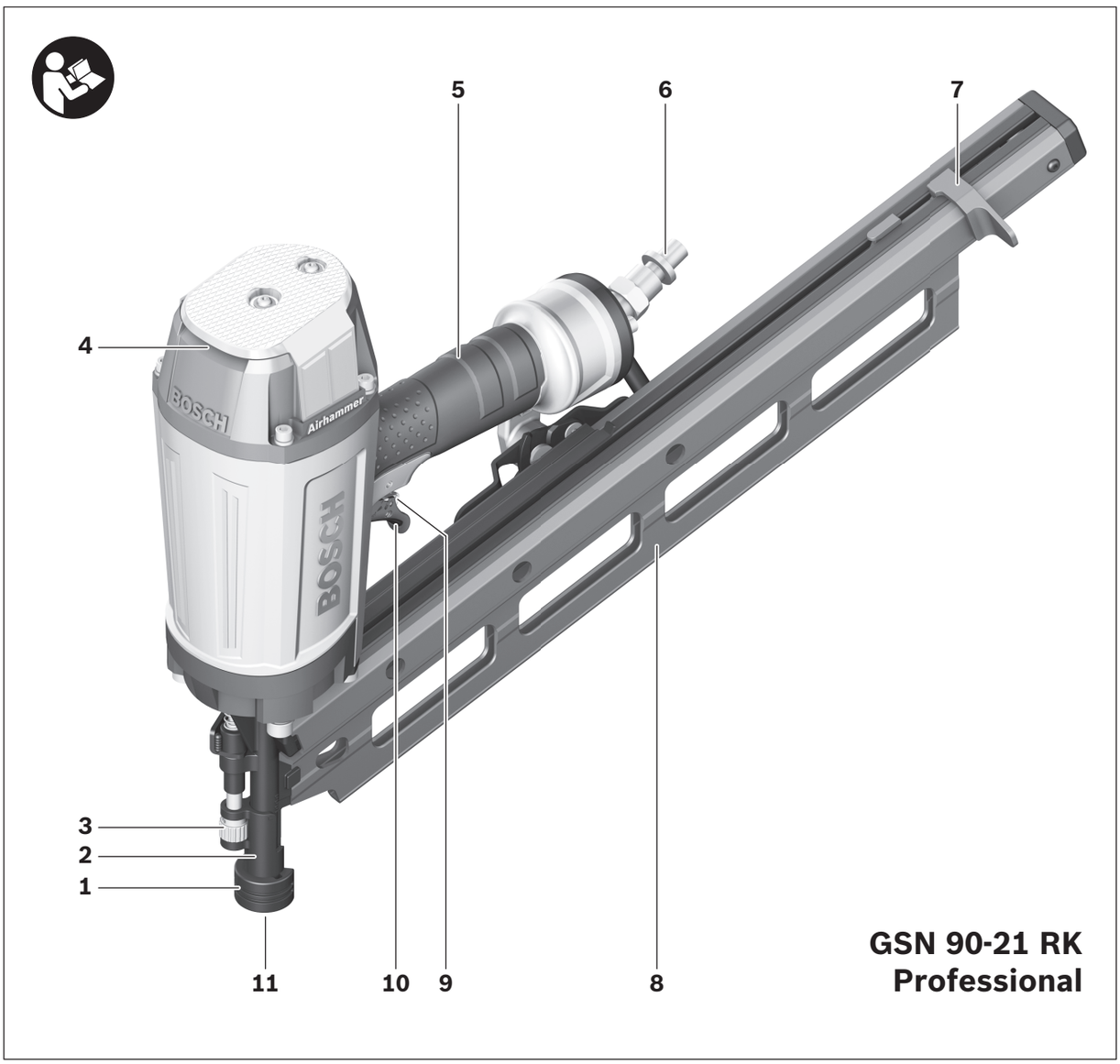

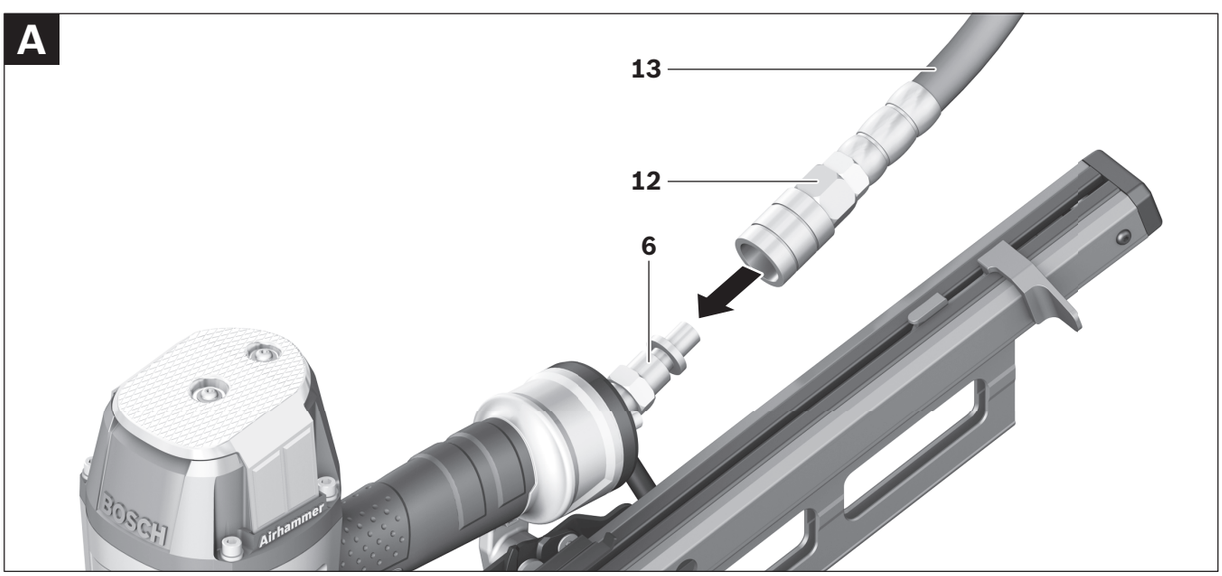

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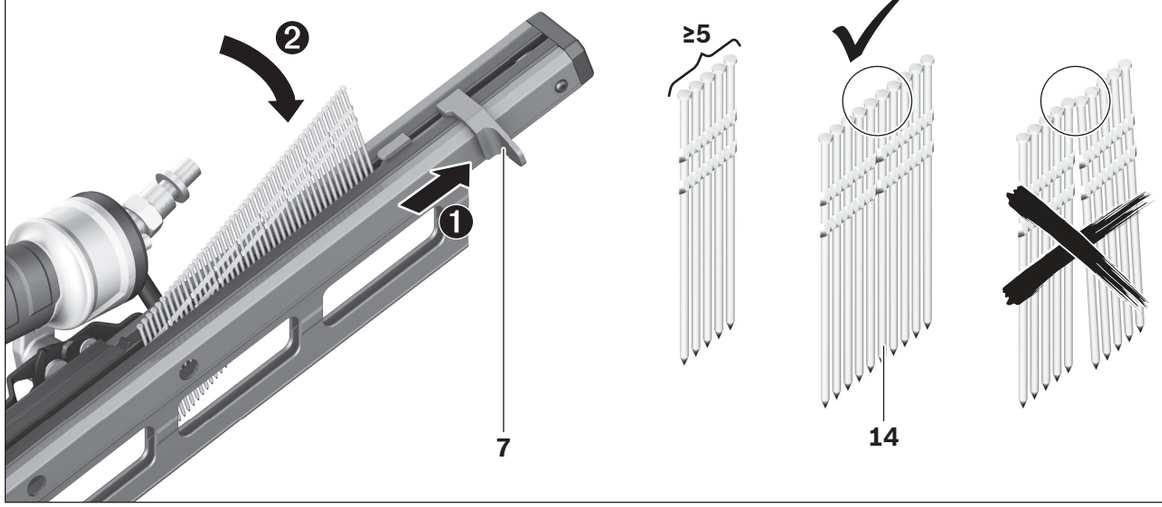

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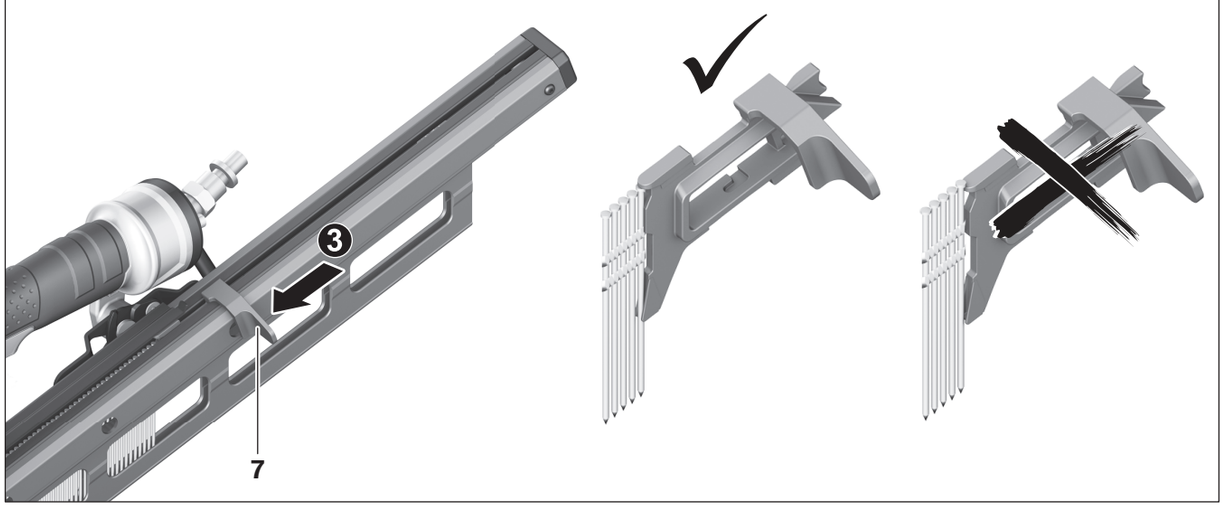

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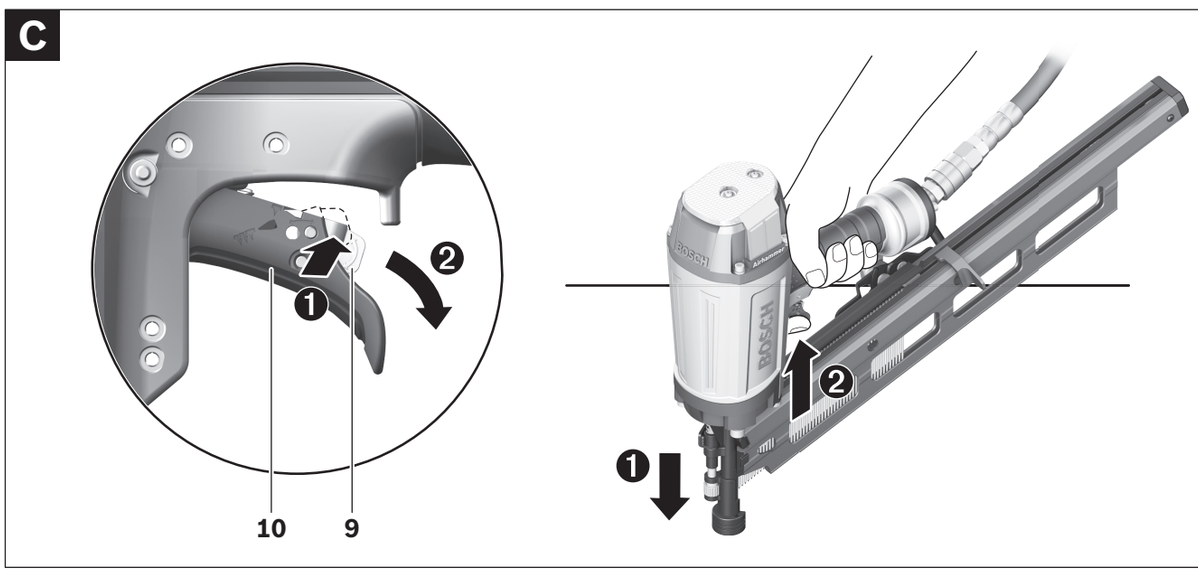

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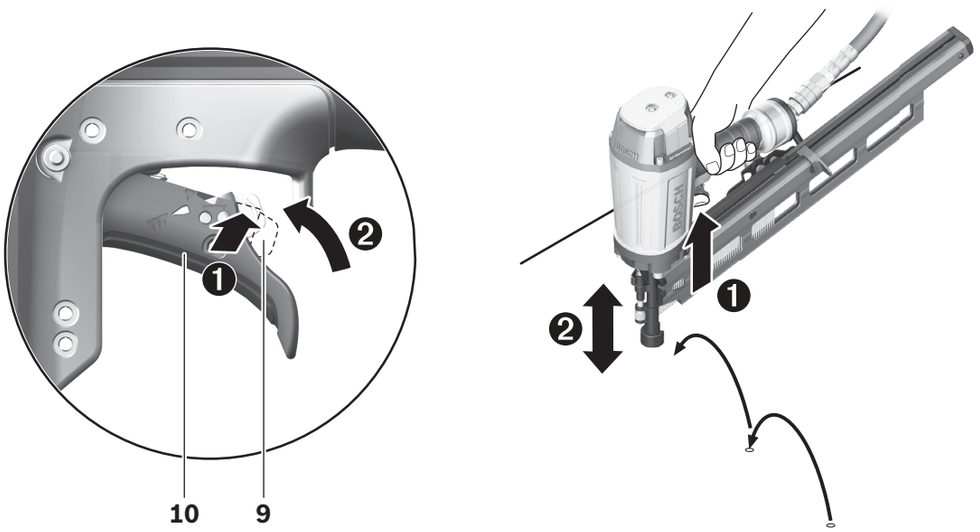

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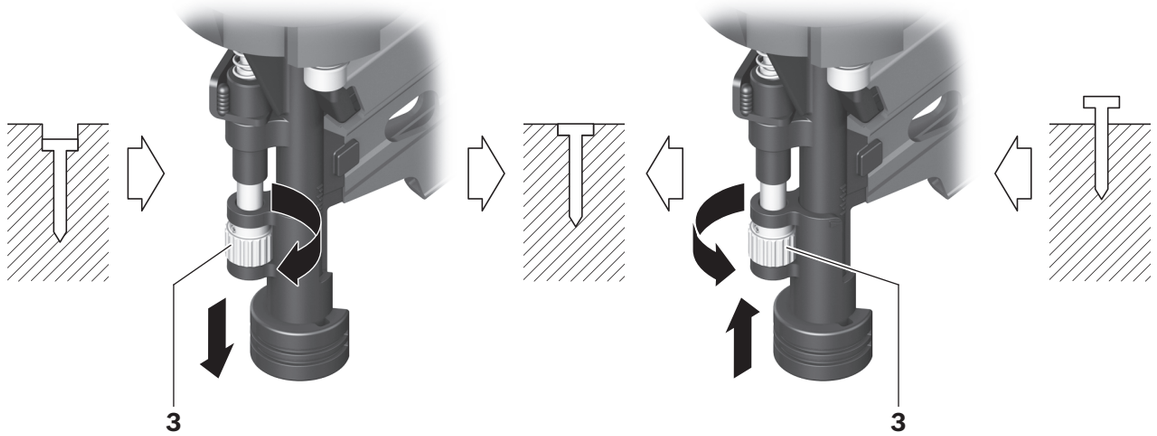

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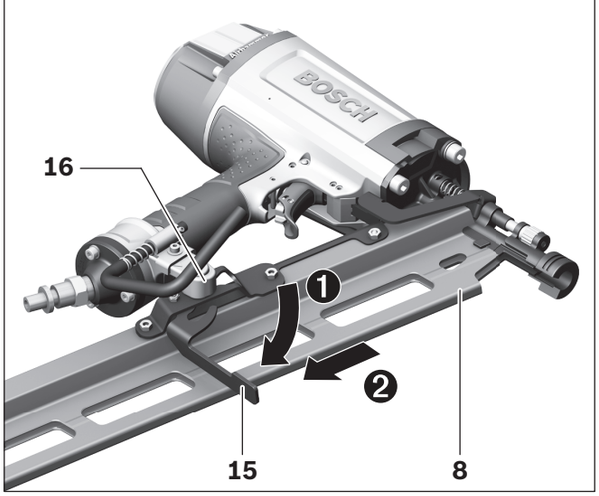

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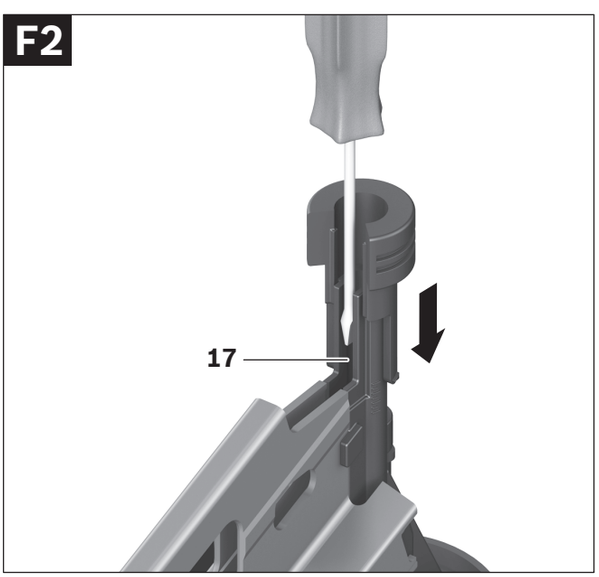

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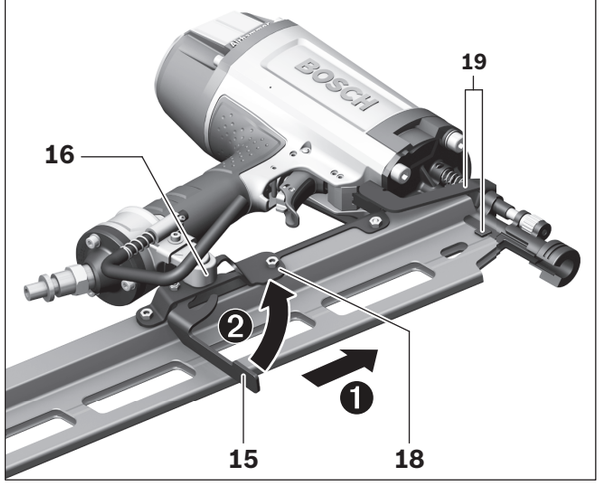

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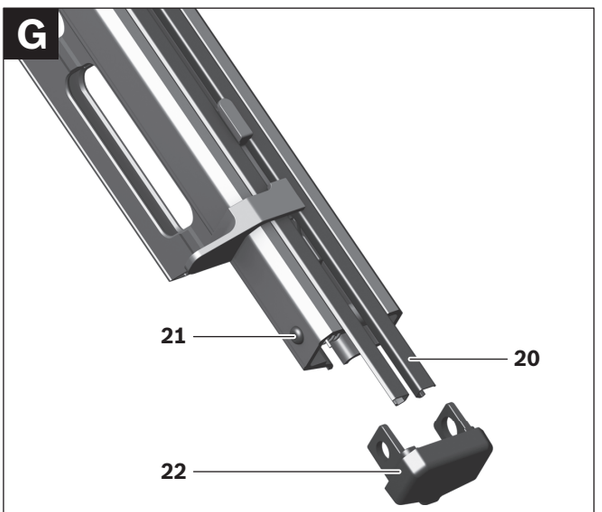

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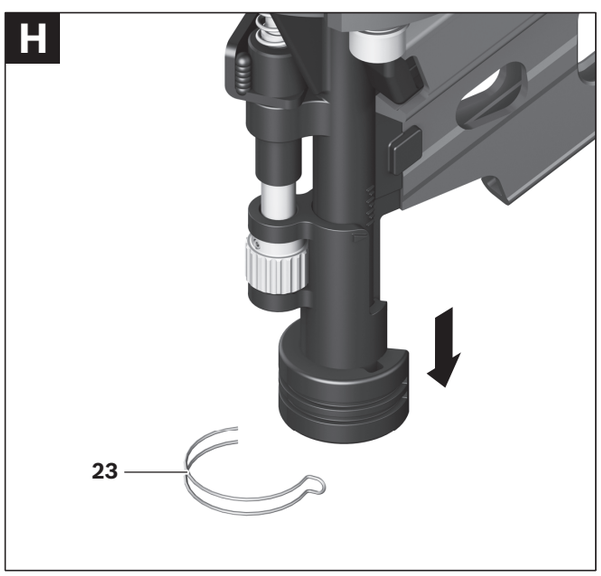

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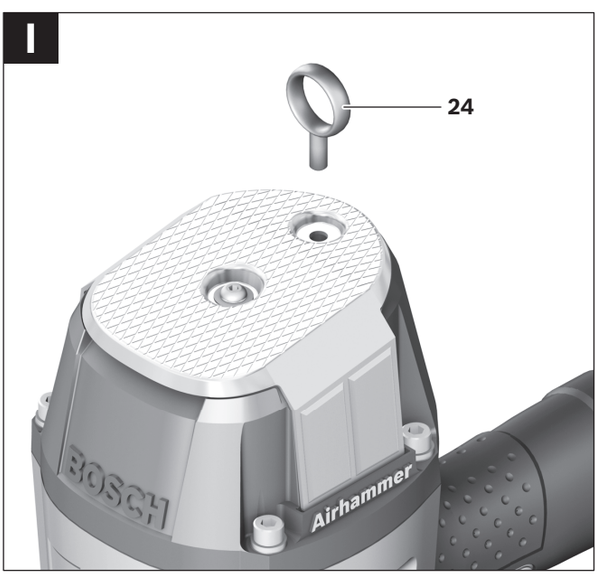

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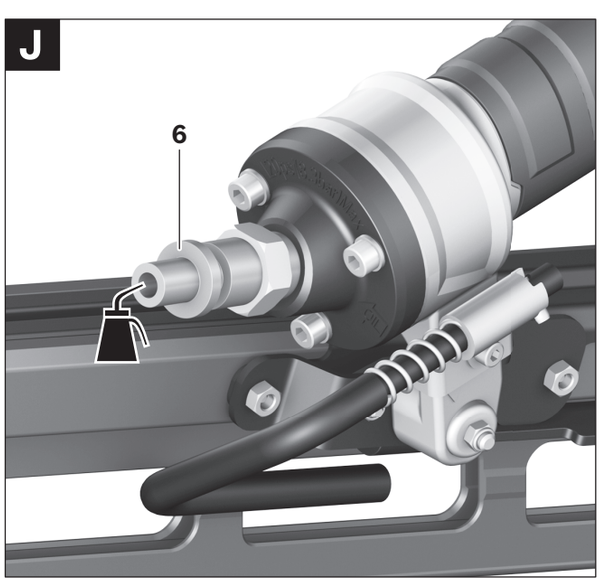

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Safety Notes

General Safety Rules for Pneumatic Tools

⚠WARNUNG **Read and observe all safety warnings and instructions.** Failure to follow the following safety warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

1) Work area safety

a) Keep work area clean and well lit. Cluttered or dark areas invite accidents.

b) Do not operate the pneumatic tool in explosive atmospheres, such as in the presence of flammable liquids, gases or dusts. While working the workpiece, sparks can be created which may ignite the dust or fumes.

c) Keep children and bystanders away from your workplace while operating the pneumatic tool. Distractions from other persons can cause you to lose control over the pneumatic tool.

2) Pneumatic tool safety

a) Use compressed air of Quality Class 5 in accordance with DIN ISO 8573-1 and a separate maintenance unit close to the pneumatic tool. The compressed air supplied should be free of foreign material and moisture to protect the pneumatic tool from damage, contamination, and the formation of rust.

b) Check the connections and the air supply lines. All maintenance units, couplers, and hoses should conform to the product specifications in terms of pressure and air volume. Too low pressure impairs the function of the pneumatic tool; too high pressure can result in material damage and personal injury.

c) Protect the hoses from kinks, restrictions, solvents, and sharp edges. Keep the hoses away from heat, oil, and rotating parts. Immediately replace a damaged hose. A defective air supply line may result in a wild compressed-air hose and can cause personal injury. Raised dust or chips may cause serious eye injury.

d) Make sure that hose clamps are always tightened firmly. Loose or damaged hose clamps may result in uncontrolled air escape.

3) Personal safety

a) Stay alert, watch what you are doing, and use common sense when operating a pneumatic tool. Do not use a pneumatic tool while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating a pneumatic tool may result in personal injury.

b) Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

c) Prevent unintentional starting. Make sure that the pneumatic tool is switched off before connecting it to the air supply, picking it up or carrying it. When your finger is on the On/Off switch while carrying the pneumatic tool or when connecting the pneumatic tool to the air supply while it is switched on, accidents can occur.

d) Remove any adjustment tools before switching on the pneumatic tool. A wrench or key left attached to a rotating part of a pneumatic tool may result in personal injury.

e) Do not overreach. Keep proper footing and balance at all times. This enables better control of the pneumatic tool in unexpected situations.

f) Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.

g) If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.

h) Do not directly inhale the exhaust air. Avoid exposing the eyes to exhaust air. The pneumatic tool's exhaust air can contain water, oil, metal particles and debris from the compressor. This can cause damage to one's health.

4) Pneumatic tool use and care

a) Use the clamping devices or a vice to secure and support the workpiece. Holding the workpiece by hand or against your body will not allow for safe operation of the pneumatic tool.

b) Do not overload the pneumatic tool. Use the pneumatic tool intended for your work. The correct pneumatic tool will do the job better and safer at the rate for which it is designed.

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c) Do not use a pneumatic tool that has a defective On/Off switch. A pneumatic tool that cannot be controlled with the switch is dangerous and must be repaired.

d) Disconnect the air supply before making any adjustments, changing accessories, or placing the pneumatic tool aside. This safety measure prevents accidental starting of the pneumatic tool.

e) Store idle pneumatic tools out of the reach of children. Do not allow persons unfamiliar with the pneumatic tool or these instructions to operate the device. Pneumatic tools are dangerous in the hands of untrained users.

f) Maintain the pneumatic tool with care. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the pneumatic tool's operation. Have damaged parts repaired before using the pneumatic tool. Many accidents are caused by poorly maintained pneumatic tools.

g) Use the pneumatic tool, accessories, application tools, etc. according to these instructions. Take into consideration the working conditions and the activities to be carried out. Use of the pneumatic tool for operations different from those intended could result in hazardous situations.

5) Service

a) Have your pneumatic tool repaired only through a qualified repair person and only using original replacement parts. This will ensure that the safety of the pneumatic tool is maintained.

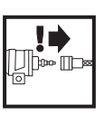
Safety Warnings for Compressed-air Nailers/Staplers

Wear safety goggles.

- **Always assume that the pneumatic tool is loaded with fasteners.** Careless handling of the pneumatic tool can lead to unexpected shot actuation of fasteners and cause injury.
- **When working, hold the pneumatic tool in such a manner that your head and body cannot be injured in case of sudden kickback due to a malfunction of the energy supply or from hard objects/locations in the workpiece.**
- **Never point the pneumatic tool at yourself or at persons close by.** Unexpected actuation will expel a fastener, which can lead to injury.
- **Do not actuate the pneumatic tool until firmly placed against the workpiece.** When the pneumatic tool is not in contact with the workpiece, the fastener can bounce away from the fastening point and overload the pneumatic tool.

Do not work on ladders or scaffolds when the actuation system “Contact actuation” is set. In particular, do not move from one fastening location to another, close boxes or enclosures, or fasten transport-securing fixtures on e.g., vehicles and waggons, via scaffolds, stairs, ladders or ladder-like constructions, such as roof battens. With this actuation system, a fastener will be discharged each time when accidentally applying the pneumatic tool while the discharge lock-off is pressed in. This can lead to injury.

- **Observe the conditions of the job site.** It is possible that fasteners can burst through thin workpieces or be deflected when working in corners or against edges, and harm persons.



Disconnect the air supply, when the fastener is jammed in the pneumatic tool. When the pneumatic tool is still connected to the power supply, it can accidentally be actuated when removing a jammed fastener.

- **Use caution when removing a jammed or stuck fastener.** The system can be under tension and cause the fastener to be shot or thrust out, while attempting to clear the jam.

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- **Do not use this to pneumatic tool to fasten electrical wiring.** It is not suitable for fastening electrical wiring, can damage the insulation of electric cables and thus lead to electric shock and danger of fire.
- **Never use oxygen or flammable gases as the energy source for the pneumatic tool.** Flammable gases are dangerous and can cause the pneumatic tool to explode.
- **Use appropriate detectors to determine if utility lines are hidden in the work area or call the local utility company for assistance.** Contact with electric lines can lead to fire and electric shock. Damaging a gas line can lead to explosion. Penetrating a water line causes property damage or may cause an electric shock.
- **The pneumatic tool may only be connected to lines, for which the maximal permissible pressure of the pneumatic tool cannot be exceeded by more than 10 %; for higher pressures, a pressure control valve (pressure reducer) with preceding pressure-limitation valve in the compressed-air line must be installed.** Excessive pressure leads to abnormal operation or breakage of the pneumatic tool, which can lead to injury.

Functional Description

Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Intended Use

The pneumatic tool is intended for connecting work in roofing, encasing, battening, manufacturing wall and ceiling elements, wood facades, pallets, wood fences, noise-reduction walls and boxes.

Only the fasteners (nails, staples, etc.) specified in table “Technical Data” may be used.

Product Features

The numbering of the product features refers to the illustration of the pneumatic tool on the graphics page.

1 Workpiece protector
2 Discharge lock-off
3 Depth stop
4 Air outlet
5 Handle
6 Air connector
7 Magazine slider
8 Magazine
9 Selector switch for actuation system
10 Trigger
11 Outlet
12 Air-connection coupling
13 Supply-air hose
14 Nail strip*
15 Magazine lock
16 Lock pin
17 Driver blade
18 Magazine holder
19 Magazine retainer at shot duct
20 Magazine rail
21 Locking screw
22 Cover lid
23 Spring clip
24 Screwable eyelet for pneumatic tool suspension

***Accessories shown or described are not part of the standard delivery scope of the product. A complete overview of accessories can be found in our accessories program.**

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Technical Data

Compressed-air nailer		GSN 90-21 RK Professional	GSN 90-34 DK Professional
Article number		3 601 D91 0..	3 601 D91 3..
Driving force at 6.3 bar (91 psi)	Nm	98	96
Actuation systems			
– Single actuation with safety run		●	●
– Contact actuation		●	●
Fastener			
– Type		Nail strip Plastic-bonded Round head	Nail strip Paper-bonded D-head
– Length	mm	50–90	50–90
– Diameter	mm	2.8–3.8	2.8–3.8
Magazine angle	°	21	34
Magazine capacity, max.		73	99
Engine oil SAE 10, SAE 20	ml	0.25–0.5	0.25–0.5
Internal volume	ml	997	997
Rated pressure	bar	4–8	4–8
Connecting thread	"	3/8	3/8
Supply-air hose			
– Max. operating pressure at 20 °C	bar	10	10
– Inner diameter of hose	"	3/8	3/8
– Max. hose length	m	30	30
Air consumption per driving procedure at 6.8 bar (100 psi)	l	3.02	3.02
Dimensions			
– Height	mm	342	355
– Width	mm	105	105
– Length	mm	542	485
Weight according to EPTA-Procedure 01/2003	kg	3.89	3.8

Noise/Vibration Information

Measured noise values determined according to EN 12549.

Typically the A-weighted noise levels of the pneumatic tool are: Sound pressure level 110 dB(A); sound power level 123 dB(A). Uncertainty K=2 dB.

Wear hearing protection!

Overall vibrational values (vector sum of three directions) determined according to EN 28662 and EN ISO 8662.

Vibrational emission value a_h <2.5 m/s^2. Uncertainty K = 1.5 m/s^2.

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Declaration of Conformity CE

We declare under our sole responsibility that the product described under “Technical data” is in conformity with the following standards or standardization documents: EN 792 according to the provisions of the directives 98/37/EC (until 28 Dec 2009), 2006/42/EC (from 29 Dec 2009).

Technical file at:
Robert Bosch GmbH, PT/ESC,
D-70745 Leinfelden-Echterdingen

Dr. Egbert Schneider	Dr. Eckerhard Strötgen
Senior Vice President	Head of Product
Engineering	Certification

ppa. i.V.

Robert Bosch GmbH, Power Tools Division
D-70745 Leinfelden-Echterdingen
Leinfelden, 08.12.2009

Assembly

Connecting the Air Supply (see figure A)

Make sure that the pressure of the compressed-air system is below the maximum permitted rated pressure of the pneumatic tool. Firstly, set the air pressure to the lower value of the recommended rated pressure (see “Technical Data”).

When in doubt, check the pressure at the air inlet with a pressure gauge with the pneumatic tool switched on.

For maximum performance, the values for the supply-air hose **13** (connection thread, maximum operating pressure, inner hose diameter, maximum hose length; see “Technical Data”) must be observed.

The compressed air supplied should be free of foreign material and moisture to protect the tool from damage, contamination, and the formation of rust.

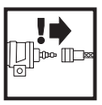
All fittings, connecting lines and hoses must be dimensioned for the pressure and the required air volume.

Avoid restrictions in the air supply, e.g., from pinching, kinking, or stretching!

Connecting the Air Supply to the Pneumatic Tool

– Empty the magazine **8**.
(See “Emptying the Magazine”, page 26)
For the following worksteps, a fastener can be discharged when interior parts of the pneumatic tool are not in the starting position due to repairs, maintenance or transport.
– Connect the air connector **6** with a supply-air hose **13** equipped with an air-connection coupling **12**.
– Check the proper function by placing the outlet **11** or the rubber workpiece protector **1** of the pneumatic tool onto a piece of scrap wood or wood material, and discharging once or twice.

Loading the Magazine (see figures B1–B2)



Disconnect the air supply before making any adjustments, changing accessories, or placing the pneumatic tool aside. This safety measure prevents accidental starting of the pneumatic tool.

▶ **Use only original Bosch accessories (see “Technical Data”).** The precision parts of the pneumatic tool such as the magazine, the outlet and the shot duct are matched to Bosch staples, nails and brads. Other manufacturers use other steel qualities and sizes.
Using fasteners not permitted, can damage the pneumatic tool and cause injuries.

While loading the magazine, hold the pneumatic tool in such a manner that the outlet **11** is not pointed at your own body or at other persons.

– Pull back the magazine slider **7** until it engages at the rear.

Note: The magazine slider must slide back with only low force (finger-pressure). A tight-running magazine slider causes the nails to be driven in at an incorrect angle.

– Clean and lubricate the magazine slider **7** as required and make sure that the magazine **8** is not dirty/soiled.
– Insert a fitting nail strip **14**.
Do not use nail strips with less than 5 nails. Do not insert more than 2 nail strips. Make sure that the heads of the nails do not overlap.

GSN 90-34 DK: With this pneumatic tool, a lock function of the magazine slider prevents the last nails from being discharged. Approx. 7 nails remain in the magazine.

– Completely pull back the magazine slider **7** once more to free the lock.
– Carefully guide the magazine slider to the front until it touches the nail strip.
Make sure that the magazine slider is slid beyond the head of the last nail.

Note: Do not let the magazine slider snap back without guiding it. Otherwise, the magazine slider could become damaged, and there is danger of your fingers being caught or pinched.

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Operation

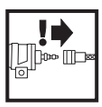
Actuation systems

The pneumatic tool can be operated with two different actuations systems:

– **Single actuation with safety run**
  With this actuation system, the discharge lock-off **2** must first be firmly pressed against the workpiece. A fastener is not discharged until the trigger **10** is pulled. Afterwards, further discharging procedures can only be actuated, when the trigger and the discharge lock-off have first been set back to the starting position.
– **Contact actuation**
  With this actuation system, the trigger **10** must be pulled first. A fastener is always discharged when the discharge lock-off **2** is firmly pressed against the workpiece while the trigger is pressed.
  This enables a higher working speed to be achieved.

The actuation system is set via the selector switch **9**.

Starting Operation



Disconnect the air supply before making any adjustments, changing accessories, or placing the pneumatic tool aside. This safety measure prevents accidental starting of the pneumatic tool.

Working with Single Actuation (see figure C)

– Press selector switch **9** inward and at the same time pivot it to the bottom position until it engages.

The actuation system “single actuation” is set.

– Release the selector switch **9** again.
– Firmly position the outlet **11** or the rubber workpiece protector **1** on the workpiece until discharge lock-off **2** is pressed in completely.
– Afterwards, briefly press trigger **10** and release again.
  A nail is discharged.
– Allow the pneumatic tool to bounce back from the workpiece.
– For another driving procedure, completely lift the pneumatic tool from the workpiece and position it firmly at the next desired location.

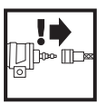
Working with Contact Actuation (see figure D)

– Press selector switch **9** inward and at the same time pivot it to the upper position until it engages.

The actuation system “contact actuation” is set.

– Release the selector switch **9** again.
– Press and hold the trigger **10**.
– Firmly position the outlet **11** or the rubber workpiece protector **1** on the workpiece until discharge lock-off **2** is pressed in completely.
  A nail is discharged.
– Allow the pneumatic tool to bounce back from the workpiece.
– For another driving procedure, completely lift the pneumatic tool from the workpiece and position it firmly at the next desired location.
– Move the pneumatic tool uniformly over the workpiece by lifting it off and applying it again.
  Each time when applying the pneumatic tool while the discharge lock-off is pressed in, a nail will be discharged.
– As soon as the desired amount of nails have been driven in, release trigger **10** again.

Working Advice



Disconnect the air supply before making any adjustments, changing accessories, or placing the pneumatic tool aside. This safety measure prevents accidental starting of the pneumatic tool.

Check the proper function of the safety and actuation devices, and the tight seating of all screws and nuts each time before using.
Disconnect a defective or not properly operating pneumatic tool immediately from of the air supply and contact an authorised service agent for Bosch power tools.

Do not perform any incorrect manipulations on the pneumatic tool. Do not disassemble or block any components of the pneumatic tool, such as the discharge lock-off.

Do not carry out “emergency repairs” with unsuitable means. The pneumatic tool is to be maintained regularly and properly (see “Maintenance and Cleaning”, page 27).

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Avoid any weakening and damage whatsoever of the pneumatic tool, e.g., through:

- Imprinting or engraving,
- Retrofitting measures not approved by the manufacturer,
- Guiding along templates manufactured of hard material, e.g. steel,
- Dropping on or sliding over the floor,
- Using as a hammer,
- Applying any kind of force.

Make sure to check whatever is below or behind your workpiece. Do not shoot nails into walls, ceilings or floors, when persons are behind them. The nails can burst through the workpiece and injure someone.

Do not shoot a nail onto an already driven-in one. This could cause the nail to deform, the nails could become jammed or the pneumatic tool could move uncontrolled.

When the pneumatic tool is used under cold ambient conditions, the first nails will be driven in slower than usual. Once the pneumatic tool has warmed up during working, normal operating speed will be regained.

Avoid blank shots in order to reduce the wear of the impact striker.

For longer work breaks or after finishing work, disconnect the pneumatic tool from the air supply and empty the magazine.

Emptying the Magazine

- Pull back the magazine slider **7** until it engages at the rear.
- Remove the nail strips **14**.
  Discard nail strips with less than 5 nails.
- Completely pull back the magazine slider **7** once more to free the lock.
- Carefully guide the magazine slider to the front until it touches the beginning of the magazine.

Note: Do not let the magazine slider snap back without guiding it. Otherwise, the magazine slider could become damaged, and there is danger of your fingers being caught or pinched.

Adjusting the Depth Stop (see figure E)

The driving depth of the nails can be set with depth stop **3**.

- Empty the magazine **8**.
  (See “Emptying the Magazine”, page 26)
- To reduce the driving depth, turn the depth stop clockwise.
  or
  To increase the driving depth, turn the depth stop anticlockwise.
- Refill the magazine.
  (See “Loading the Magazine”, page 24)
- Test the new driving depth on a test workpiece.
  Repeat the worksteps as required.

Clearing Jams (see figures F1–F3)

Single nails can become jammed in the shot duct. If this should occur frequently, please contact an authorised service agent for Bosch power tools.

- Empty the magazine **8**.
  (See “Emptying the Magazine”, page 26)
- Open the magazine lock **15**.
- Pull the magazine **8** away from the housing until it slips off of lock pin **16**.
  This makes the jammed nail in the shot duct accessible.
- Remove the jammed nail. For this, us a pair of pliers, if required.
- When driver blade **17** is extended, push it back into the piston using a lubricated screwdriver or other suitable lubricated object.
- Lubricate the shot duct with 2–3 drops of engine oil (SAE 10 or SAE 20).
- Reinsert the magazine **8** again:
  Open the magazine lock **15**, if required. Guide lock pin **16** into the opening of magazine holder **18**. Align the magazine to magazine retainers **19** and push the magazine completely to the front. Lock the magazine by completely folding magazine lock **15** up.
- Refill the magazine.
  (See “Loading the Magazine”, page 24)

Changing a Magazine Rail (see figure G)

The magazine rails **20** can wear after prolonged use of the pneumatic tool.

Replace defective magazine rails.

- Empty the magazine **8**.
  (See “Emptying the Magazine”, page 26)
- Loosen locking screw **21** (3 mm) with the supplied Allen key.
- Pull cover lid **22** out of the magazine **8**.
- Allow the defective magazine rails **20** to slide out of the magazine.
- Insert new magazine rails into the magazine.
- Insert cover lid **22** back into the magazine and tighten locking screw **21**.

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Changing the Workpiece Protector (see figure H)

The workpiece protector **1** at the end of the discharge lock-off **2** protects the workpiece until the pneumatic tool is correctly placed for the driving procedure.

The workpiece protector can be removed and replaced.

– Remove spring clip **23** and pull the workpiece protector from the discharge lock-off **2**.
– Push the new workpiece protector over the discharge lock-off and mount the spring clip again.

Stationary Use of the Pneumatic Tool (see figure I)

For stationary use, the pneumatic tool can be fastened to a balancer.
The screwable eyelet **24** is required for this.

– Remove the rear screw of the exhaust cap with the supplied Allen key.
– Screw the eyelet **24** firmly into the exhaust cap.
– Hook the eyelet to the balancer hook.

Transport and Storage

For transport, disconnect the pneumatic tool from the air supply; especially when using ladders or moving in an unusual stance or posture.

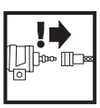
At the workplace, carry the pneumatic tool only by the handle **5** and with the trigger **10** released.

Always store the pneumatic tool disconnected from the air supply and at a clean and dry location.

When not using the pneumatic tool for a longer period of time, cover steel parts with a fine oil coating. This prevents the formation of rust.

Maintenance and Service

Maintenance and Cleaning



Disconnect the air supply before making any adjustments, changing accessories, or placing the pneumatic tool aside. This safety measure prevents accidental starting of the pneumatic tool.

If the pneumatic tool should fail despite the care taken in manufacture and testing, repair should be carried out by an authorised customer services agent for Bosch power tools.

In all correspondence and spare parts orders, please always include the 10-digit article number given on the type plate of the pneumatic tool.

▶ **Have maintenance and repair work carried out only through qualified persons.** This will ensure that the safety of the pneumatic tool is maintained.

An authorized Bosch after-sales service agent will carry out this work quickly and reliably.

Lubricating the Pneumatic Tool (see figure J)

When the pneumatic tool is not connected to a maintenance unit, it must be lubricated at regular intervals:

– For **light-duty use** 1x per day.
– For **heavy-duty use** 2x per day.

Apply 2–3 drops of lubricant into air connector **6**. Do not apply too much lubricant, which could then accumulate in the pneumatic tool and be emitted via air outlet **4**.

Use only the lubricants recommended by Bosch.

– SAE 10 mineral engine oil (for use at very cold ambient conditions)
– SAE 20 mineral engine oil

Observe all applicable environmental regulations when disposing of old grease and solvents.

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Maintenance Schedule

Always keep air outlet **4**, discharge lock-off **2** and trigger **10** clean and free of foreign material (dust, chips, sand, etc).

Clean the magazine **8**. Remove any plastic or wood chips that may accumulate in the magazine during operation.

Clean the pneumatic tool in regular intervals using compressed air.

Measure	Explanation	Action
Draining the exhaust filter daily.	Prevents the accumulation of dirt/ debris and moisture in the pneumatic tool.	– Open the drain valve.
Keeping the lubricator filled at all times.	Ensures the lubrication of the pneumatic tool.	– Fill lubricator with the recommended lubricants. (See “Lubricating the Pneumatic Tool”, page 27)
Cleaning the magazine **8** and magazine slider **7**.	Prevents the jamming of nails.	– Blow out the mechanism of the magazine/magazine slider daily with compressed air.
Ensuring that the discharge lock-off **2** functions properly.	Promotes your work safety and efficient usage of the pneumatic tool.	– Blow out the mechanism of the discharge lock-off daily with compressed air.
Lubricating the pneumatic tool.	Reduces the wear of the pneumatic tool.	– Apply 2–3 drops of lubricant into air connector **6**. (See “Lubricating the Pneumatic Tool”, page 27)
Draining the compressor.	Prevents the accumulation of dirt/ debris and moisture in the pneumatic tool.	– Open the drain valve of the compressor tank.

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Correction of Malfunctions

Problem	Cause	Corrective Measure
The pneumatic tool is ready for operation but no nails are discharged.	A nail is jammed in the shot duct.	– Clear the jam. (See “Clearing Jams”, page 26)
	The magazine slider is **7** defective.	– Clean and lubricate the magazine slider **7** as required and make sure that the magazine **8** is not dirty/soiled.
	The spring of the magazine slider is too week or defective.	– Contact an authorised service agent for Bosch power tools. Have the component replaced there.
	The fasteners being used are not permitted.	– Use only original accessories. Only the fasteners (nails, staples, etc.) specified in table “Technical Data” may be used.
	The magazine **8** is empty.	– Refill the magazine. (See “Loading the Magazine”, page 24)
The nails are discharged very slowly and with too little pressure.	The rated pressure of the compressed-air supply is too low.	– Increase the compressed-air supply. 8 bar may not be exceeded.
	The driver blade is damaged.	– Use only the lubricants recommended by Bosch. (See “Lubricating the Pneumatic Tool”, page 27)
	The sealing ring of the piston is worn or damaged.	– Contact an authorised service agent for Bosch power tools. Have the component replaced there.
	The buffer is worn.	– Contact an authorised service agent for Bosch power tools. Have the component replaced there.
	The length and diameter of supply-air hose **13** do not correspond with the data of this pneumatic tool.	– Use a supply-air hose with the correct dimensions. (See “Technical Data”, page 23)
	The supply-air hose **13** is bent/creased.	– Correct the bend/crease in the supply-air hose.
The nails are driven in too deep.	The rated pressure of the compressed-air supply is too high.	– Reduce the compressed-air supply. 4 bar may not be fallen below.
	The depth stop is set too deep.	– Adjust the depth stop to the desired depth. (See “Adjusting the Depth Stop”, page 26)
	The buffer is worn.	– Contact an authorised service agent for Bosch power tools. Have the component replaced there.

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Problem	Cause	Corrective Measure
The nails are not driven in deep enough.	The rated pressure of the compressed-air supply is too low.	– Increase the compressed-air supply. 8 bar may not be exceeded.
	The depth stop is set too high.	– Adjust the depth stop to the desired depth. (See “Adjusting the Depth Stop”, page 26)
	The length and diameter of supply-air hose **13** do not correspond with the data of this pneumatic tool.	– Use a supply-air hose with the correct dimensions. (See “Technical Data”, page 23)
	The supply-air hose **13** is bent/creased.	– Correct the bend/crease in the supply-air hose.
The pneumatic tool skips nails or has a too large cycle feed.	The fasteners being used are not permitted.	– Use only original accessories. Only the fasteners (nails, staples, etc.) specified in table “Technical Data” may be used.
	The magazine **8** is not operating correctly.	– Clean and lubricate the magazine slider **7** as required and make sure that the magazine **8** is not dirty/soiled.
	The spring of the magazine slider is too week or defective.	– Contact an authorised service agent for Bosch power tools. Have the component replaced there.
	The sealing ring of the piston is worn or damaged.	– Contact an authorised service agent for Bosch power tools. Have the component replaced there.
Frequent jamming of nails in the shot duct.	The fasteners being used are not permitted.	– Use only original accessories. Only the fasteners (nails, staples, etc.) specified in table “Technical Data” may be used.
		– Contact an authorised service agent for Bosch power tools.
The driven nails are bent.	The driver blade is damaged.	– Contact an authorised service agent for Bosch power tools. Have the component replaced there.
Contrary to working with normal operating speed, the nails are not driven in deep enough at higher operating speed.	The interior diameter of the supply-air hose is too low.	– Use a supply-air hose with the correct dimensions. (See “Technical Data”, page 23)
	The compressor is not suitable for fast operating speeds.	– Use a compressor that is sufficiently dimensioned for the number of connected pneumatic tools and the operating speed.

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Accessories

For more information on the complete quality accessories program, please refer to the Internet under www.bosch-pt.com or contact your specialist shop.

After-sales Service and Customer Assistance

Our after-sales service responds to your questions concerning maintenance and repair of your product as well as spare parts. Exploded views and information on spare parts can also be found under:

www.bosch-pt.com

Our customer service representatives can answer your questions concerning possible applications and adjustment of products and accessories.

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Disposal

The pneumatic tool, accessories and packaging should be sorted for environmental-friendly recycling.

When your unit is no longer suitable for use, please return it to a specialist store or send it directly (sufficiently postpaid please) to:
Recyclingzentrum Elektrowerkzeuge
Osteroder Landstr. 3
37589 Kalefeld
The units will be disassembled. Plastics, e.g., the housing which are primarily made of polyamide, are identified (Bosch detection code for plastics since 1992) and recycled. Iron, steel, aluminium and cast parts are melted in a high-temperature furnace and recycled. Copper scrap is shredded (without heat) and returned to the copper industry as copper granulate.

Subject to change without notice.